Moving head

72 40mm(掏空)
4R-10

USER MANUAL

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1. Open the box and checking

Congratulations on choosing our products! Please carefully read this instruction m anual in its entirety and keep it well for using reference. This m anual contained about the installation and the relative using information of this products. Please according to this m anual's relative speaking when using this equipm ent.

This equipm ent was made of new style, high intensity plastic . It fully shows the m odem times light characteristic with beauty structure. And it was made according to CE standard. Fully up the international standard of DM X512 agreem ent. M aster or slave in phase control.Can be use in large entertainm ent, theater, performing and playing hall, etc.

This product uses Philips MSR Gold 1200FastFIT,750 hours . When receiving this product please carefully bring and put; and check that whether this equipm ent has been dam aged or not during transportation. And please also check the following thing was enclosed:

Signal line ---------- one piece Safety string ----------one piece
User M anual ---------- one set

2. Safety instructions

Every person involved with installation and maintenance of this device have to:
- be qualilfied
- follow the instructions of this manual

CAUTION!
Be careful with your operations.
With a high voltage you can suffer
a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to en-sure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

- ◆The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.
- ◆Please consider that damages caused by manual modifications to the device are not subject to warranty.
- ◆Never let the power-cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- ◆Make sure that the available voltage is not higher than stated on the rear panel.
- ◆Always plug in the power plug least. Make sure that the power-switch is set to off-position before you connect the device to the mains. The power plug has to be accessable after installing the device.
- ◆Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

◆Always disconnect from the mains, when the device is not in use or before cleaning it.
◆Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.
◆This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
◆The electric connection, repairs and servicing must be carried out by a qualified employee.
◆Do not connect this device to a dimmer pack.
◆Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
◆During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
◆Do not touch the device's housing bare hands during its operation (housing becomes hot)!
◆For replacement use lamps and fuses of same type and rating only.

CAUTION ! EYEDAMAGES !
Avoid looking directly into the light source
(meant especially for epileptics) !

3. Operating determinations

◆This device is a moving-head for creating decorative effects and was designed for indoor use only.
◆If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
◆Never run the device without lamp!
◆Do not shake the device. Avoid brute force when installing or operating the device.
◆Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
◆When choosing the installation-spot, please make sure that the device is not exposed to heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!
◆The minimum distance between light output and the illuminated surface must be more than 1.5 meters.
◆Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fix-ture.
◆Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.
◆operate the fixture after having checked that the housing is firmly closed and all screws are tightly fas-tened.
◆The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explose and emit a high ultraviolet radiation, which may cause burns.

◆The maximum ambient temperature 40°C must never be exceeded.
◆Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!
◆Please use the original packaging if the device is to be transported.
◆Please consider that unauthorized modifications on the device are forbidden due to safety reasons!
◆If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

The lamp used in this projector is a discharge lamp.After switching off don't attempt to restart the projector until la mp has cooled,this will require approx 15 minutes.Switc hing the lamp on and off at short intervals will reduce the life of both the lamp and the projector.But occasional bre aks will prolong the lamp and projector.

4.Rigging the fixture

DANG ER TO LIFE Please consider the respective national norm s during the Installation! The installation must only be carried out by an authorized dealer!

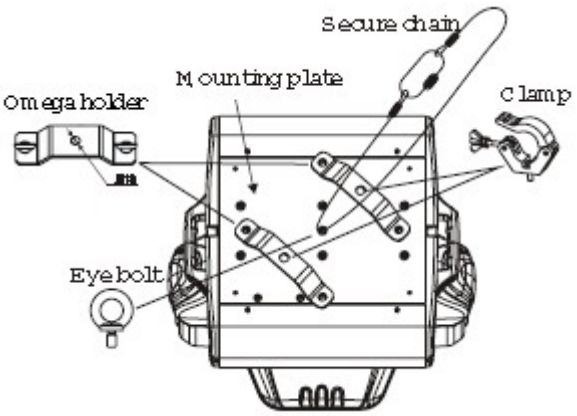
Ø The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

Ø The installation must always be secured with a secondary safety attachment, e.g. An appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall n if the main attachment fails.

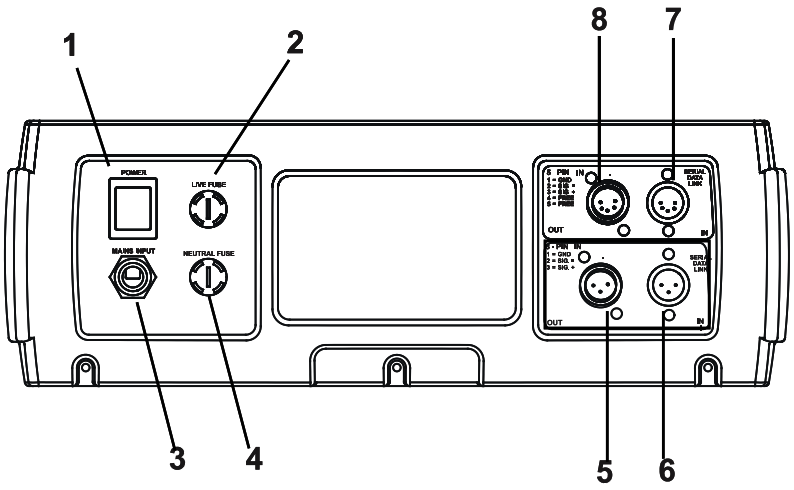
ØW hen rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

Ø The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

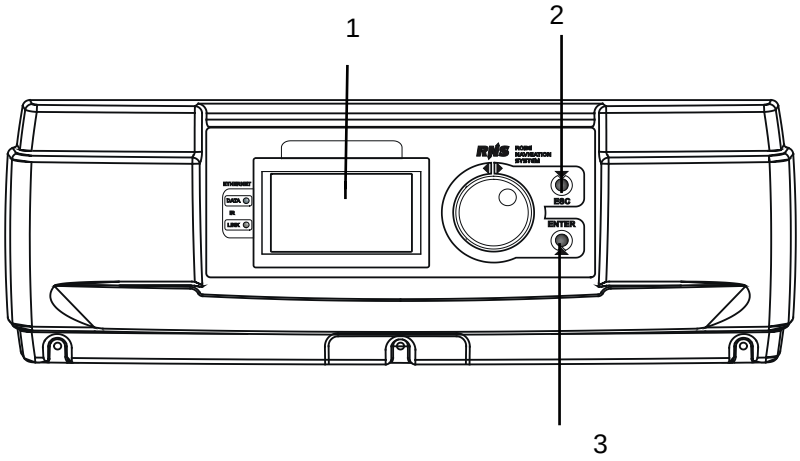
Ø The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.
Ø The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.
Ø The projector should be installed outside areas where persons m ay walk by or be seated.
Ø IM PO R TA N T! OVERHEAD RIGGING REQUIRES EX TEN SIV E EX PERIEN CE, including (but not limited to)calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.
Ø The projector has to be installed out of the reach of people.
Ø If the projector shall be lowered from the ceiling or high joists, professional trussing system s have to be used. The projector must never be fixed swinging freely in the room .
Ø Caution Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do NOT install the projector!
Ø Before rigging make sure that the installation area can hold a minim um point load of 10 times the projector s weight.
Ø The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.
Ø For overhead use, always install a safety-rope that can hold at least 10 times the weight of the fixture. You must only use safety-ropes with screw –on carabines. Pull the safety-rope through the two apertures on the bottom of the base and over the trussing system etc.
Insert the end in the carabine and tighten the fixation screw .



5.Description of the device



1. power switch
2. Insurance seat
3. power-in
4. Insurance seat
5. 3-pin XLR female
6. 3-pin XLR male
7. 5-pin XLR male
8. 5-pin XLR female

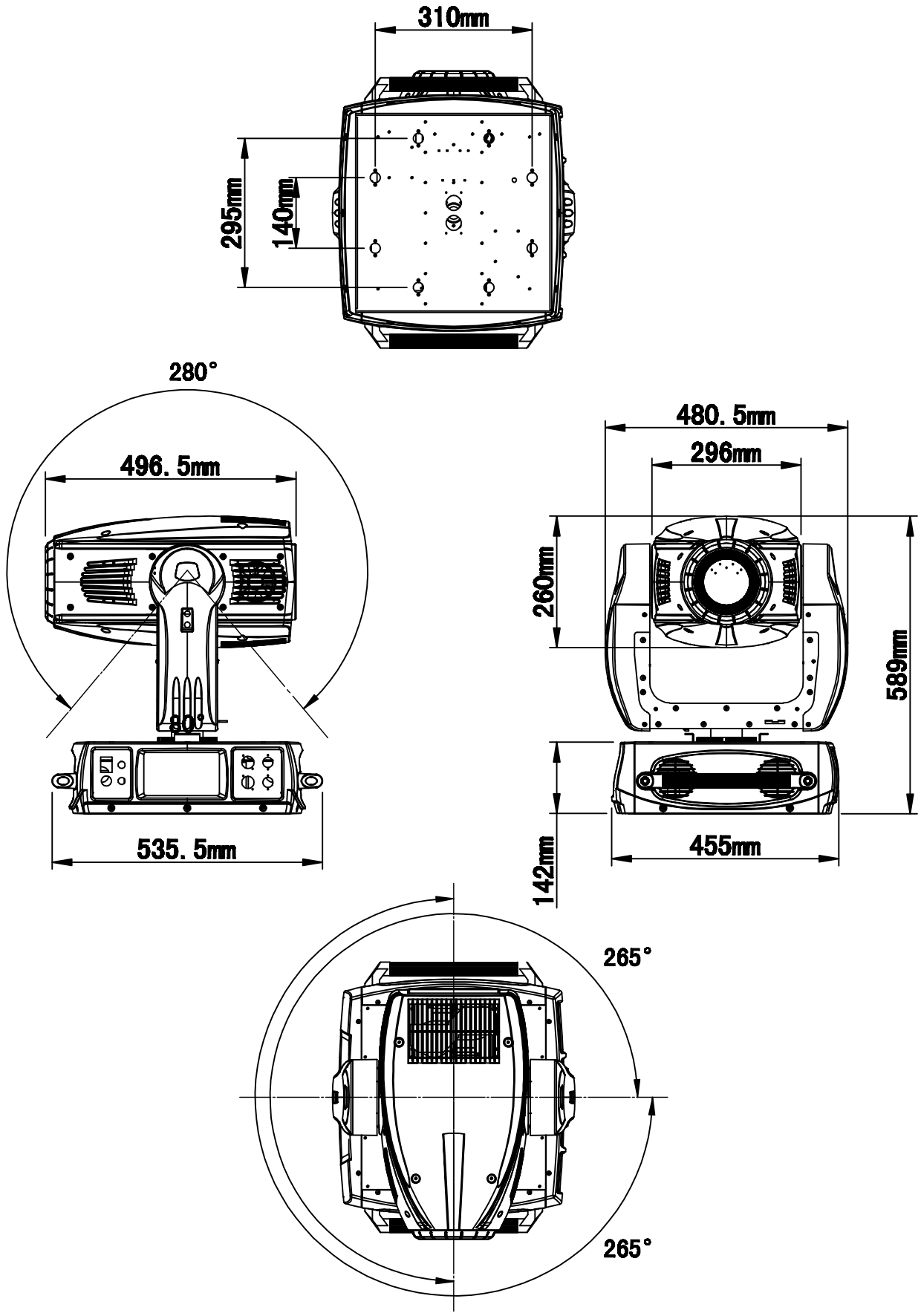


1.LED

2.UP

3.DOWN

6. Dimension


310mm
295mm
140mm
280°
496. 5mm
80°
535. 5mm
480. 5mm
296mm
260mm
589mm
455mm
142mm
265°
265°

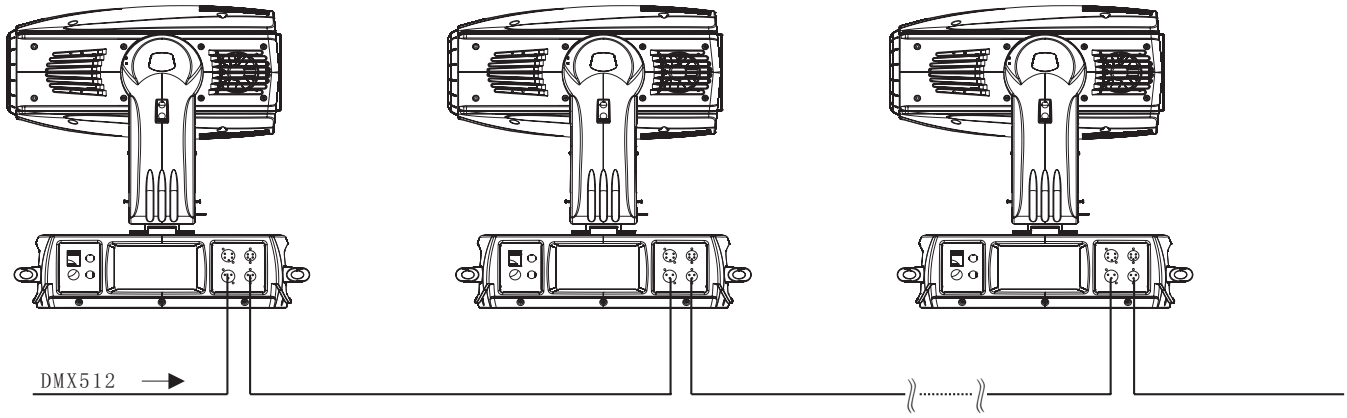
7.DMX-512 connection

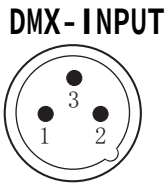
If you wish to change the power supply settings, see the chapter Appendix.
Connect the fixture to the mains with the enclosed power cable and plug.
The earth has to be connected!

Cable(UE)	Cable(US)-208V	Pin	International
Brown	Black	Live	L
Liht blue	white	Neutral	N
Yellow/Green	Green	Earth	⏚

DM X-512 connection/connection between fixtures

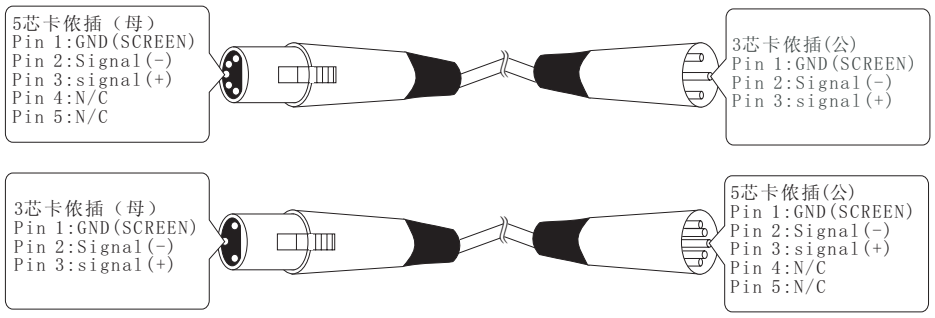
Only use a stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.





Caution:

A t the last fixture, the DM X-cable has to be terminated with a terminator. Solder a 120 resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.



8、Colorspot1200EF-DMX PROTOCOL

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	26	0 - 255	**Pan** Pan movement by 530°	proportional
2	2	2	2	27	0 - 255	**Pan Fine** Fine control of pan movement	proportional
3	3	3	3	28	0 - 255	**Tilt** Tilt movement by 280°	proportional
4	4	4	4	29	0 - 255	**Tilt fne** Fine control of tilt movement	proportional
5	5	5	5	30	0 1 - 255 1 - 255	**Pan/Tilt speed , Pan/Tilt time** Max. speed (tracking mode) **P./T. speed -set Speed Mode in menu: Pan/Tilt Mode** Speed from max. to min. (vector mode) **P./T. time - set Time Mode in menu: Pan/Tilt Mode** Time from 0.1 s to 25.5 s.	step proportional proportional
6	6	6	6	31	0 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120-129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 209 210 - 229 230 - 239 240 - 255	**Power/Special functions** Reserved To activate following functions, stop in DMX value for at least 3 s. and shutter must be closed at least 3 s. („Shutter,Strobe" channel 34 27) must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden). Pan/Tilt speed mode Pan/Tilt time mode Blackout while pan/tilt moving Disabled blackout while pan/tilt moving Blackout while colour wheel moving Disabled blackout while colour wheel moving Blackout while gobo wheel moving Disabled blackout while gobo wheel moving To activate following functions, stop in DMX value for at least 3 s. Lamp On,reset(total reset except pan/tilt reset) Pan/Tilt reset Colour system reset Gobo wheels reset Dimmer/strobe reset Zoom/focus/animation wheel reset Iris/prism reset Total reset Reserved Lamp Off Reserved	 step step step step step step step step step step step step step step step step step step
7	7	-	-	-	0 - 9 10 - 31 32 - 63 64 - 95 96 - 127 128 - 159 160 - 191 192 - 223 224 - 255	**Pan/Tilt macro selection** Disabled pan/tilt macro Reserved Figure of circle (from small to large) Figure of horizontal eight (from small to large) Figure of vertical eight (from small to large) Figure of rectangle (from small to large) Figure of triangle (from small to large) Figure of star (from small to large) Figure of cross (from small to large)	step step proportional proportional proportional proportional proportional proportional proportional
8	8	-	-	-	0 1 - 127 128 - 129 130 - 255	**Pan/Tilt macro speed** (Set pan/tilt speed (channel 5) at 0) No macro generation Macro generation from fast to slow-forwards No macro generation Macro generation from slow to fast-backwards	 step proportional step proportional

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
						Colour wheel	
						Continual positioning	
					0	Open/white	proportiona
					16	Deep red	proportiona
					32	Deep blue	proportiona
					48	Orange	proportional
					64	Green	proportional
					80	Light red	proportional
					96	Amber	proportional
					112	UV flter	proportional
					128-129	White	proportional
						Positioning	
9	**9**	**7**	**7**	**10**	130-137	Deep red	step
					138-145	Deep blue	step
					146-153	Orange	step
					154-163	Green	step
					164-171	Light red	step
					172-181	Amber	step
					182-189	UV flter	step
					190 - 215	Forwards rainbow effect from fast to slow	proportional
					216 - 217	No rotation	step
					218 - 243	Backwards rainbow effect from slow to fast	proportional
					244 - 249	Random colour selection by audio control	step
						(Set microphone sensitivity in menu „Personality”)	
					250 - 255	Auto random colour selection from fast to slow	proportional
10	**-**	**8**	**-**	**11**		**Colour wheel - fne positioning**	
					0 - 255	Fine positioning	proportional
11	**10**	**9**	**8**	**4**		**Cyan**	
					0 - 255	Cyan (0-white, 255-full cyan)	proportional
12	**11**	**10**	**9**	**6**		**Magenta**	
					0 - 255	Magenta (0-white, 255-full magenta)	proportional
13	**12**	**11**	**10**	**8**		**Yellow**	
					0 - 255	Yellow (0-white, 255-full yellow)	proportional
14	**13**	**12**	**11**	**-**		**CTO flter**	
					0 - 255	(0-6000K, 255-3200K)	proportional
						CMY colour macros	
					0 - 7	No function	step
					8 - 15	Macro 1	step
					16 -23	Macro 2	step
					24-31	Macro 3	step
					32-39	Macro 4	step
					40-47	Macro 5	step
					48-55	Macro 6	step
					56-63	Macro 7	step
					64-71	Macro 8	step
15	**14**	**13**	**12**	**16**	72-79	Macro 9	step
					80-87	Macro 10	step
					88-95	Macro 11	step
					96-103	Macro 12	step
					104-111	Macro 13	step
					112-119	Macro 14	step
					120-127	Macro 15	step
					128-135	Macro 16	step
					136-143	Macro 17	step
					144-151	Macro 18	step
					152-159	Macro 19	step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
					160-167	Macro 20	step
					168-175	Macro 21	step
					176-183	Macro 22	step
					184-191	Macro 23	step
					192-199	Macro 24	step
					200 - 207	Macro 25	step
15	14	13	12	16	208 - 215	Macro 26	step
					216 - 223	Macro 27	step
					224 - 231	Macro 28	step
					232 - 239	Macro 29	step
					240 - 243	Macro 30 - Random rainbow effect from fast to slow	proportional
					244 - 249	Random macro selection by audio control (Set microphone sensitivity in menu "PErS")	step
					250 - 255	Auto random macro selection from fast to slow	proportional
16	15	14	13	-		**Speed of CMY and CTO filter**	
					0 - 255	Speed from max. to min.	proportional
						Animation wheel	
					0-31	Open	step
					32-47	Horizontal indexed position-set indexing on channel18 (17)	step
					48-63	Vertical indexed position-set indexing on channel 18 (17)	step
					64-79	Cont.rotation,horizon. position-set speed on channel 18 (17)	step
17	16	15	14	17	80-95	Cont.rotation,vertical. position-set speed on channel 18 (17)	step
					96-111	Horizontal pulse effects-set speed on channel 18 (17)	step
					112-127	Vertical pulse effects-set speed on channel 18 (17)	step
					128-191	Indexed angle position from horizont. to vert. with indexing (set indexing on channel 18 (17))	step
					192-255	Indexed angle position from vertic. to horizont. with rotation (set rotation on channel 18 (17))	step
						Animation wheel rotation and indexing	
						Rotation of animation wheel	
					0	No rotation	step
					1-127	Forward rotation from fast to slow	proportional
18	17	16	15	18	128-129	No rotation	step
					130-255	Backward rotation from slow to fast	proportional
						Indexing of animation wheel	
					0-255	Indexed angle	proportional
						Speed of pulse offects	
					0-255	From fast to slow	proportional
						Static gobo wheel	
						Continual Positioning	
						In range 0-□□ DM□ is possible fne gobo positioning - set value on channel 20	
					0	Open/hole	proportional
					7	Gobo 1	proportional
					13	Gobo 2	proportional
					19	Gobo 3	proportional
					26	Gobo 4	proportional
					32	Gobo 5	proportional
19	18	17	16	15	39	Gobo 6	proportional
					45	Gobo 7	proportional
					51	Gobo 8	proportional
					58	Gobo 9	proportional
					64	Open/hole	proportional
						Positioning	
					65 - 69	Gobo 1	step
					70 - 74	Gobo 2	step
					75 - 79	Gobo 3	step
					80 - 84	Gobo 4	step
					85 - 89	Gobo 5	step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
					90 - 94	Gobo 6	step
					95 - 99	Gobo 7	step
					100 - 104	Gobo 8	step
					105 - 109	Gobo 9	step
						Shaking gobos from slow to fast	
					110 - 119	Gobo 1	proportional
					120 - 129	Gobo 2	proportional
					130 - 139	Gobo 3	proportional
					140 - 149	Gobo 4	proportional
					150 - 159	Gobo 5	proportional
19	**18**	**17**	**16**	**15**	160 - 169	Gobo 6	proportional
					170 - 179	Gobo 7	proportional
					180 - 189	Gobo 8	proportional
					190 - 199	Gobo 9	proportional
					200 - 201	Open/hole	
					202 - 221	Forwards gobo wheel rotation from fast to slow	proportional
					222 - 223	No rotation	
					224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
					244 - 249	Random gobo selection by audio control	step
						(Set microphone sensitivity in menu „Personality")	
					250 - 255	Auto random gobo selection from fast to slow	proportiona
20	**-**	**18**	**-**	**-**		**Fine static gobo wheel**	
					0-255	Fine positioning	proportional
						Rotating gobo wheel	
						Index - set indexing on channel 22 (20)	
					0 - 3	Open/hole	step
					4 - 7	Gobo 1	step
					8 - 11	Gobo 2	step
					12 - 15	Gobo 3	step
					16 - 19	Gobo 4	step
					20 - 23	Gobo 5	step
					24 - 27	Gobo 6	step
					28 - 31	Gobo 7	step
						Rotation - set rotation on channel 22 (20)	
					32 - 35	Gobo 1	step
					36 - 39	Gobo 2	step
					40 - 43	Gobo 3	step
					44 - 47	Gobo 4	step
					48 - 51	Gobo 5	step
					52 - 55	Gobo 6	step
					56 - 59	Gobo 7	step
21	**19**	**19**	**17**	**12**		**Shaking gobos from slow to fast**	
						Index - set indexing on channel 22 (20)	
					60 - 69	Gobo 1	proportional
					70 - 79	Gobo 2	proportional
					80 - 89	Gobo 3	proportional
					90 - 99	Gobo 4	proportional
					100 - 109	Gobo 5	proportional
					110 - 119	Gobo 6	proportional
					120 - 129	Gobo 7	proportional
						Shaking gobos from slow to fast	
						Rotation - set rotation on channel 22 (20)	
					130 - 139	Gobo 1	proportional
					140 - 149	Gobo 2	proportional
					150 - 159	Gobo 3	proportional
					160 - 169	Gobo 4	proportional
					170 - 179	Gobo 5	proportional
					180 - 189	Gobo 6	proportional
					190 - 199	Gobo 7	proportional

Mode/channel					Value	Function	Type of control
1	2	3	4	5			
					200 - 201	Open/hole	step
					202 - 221	Forwards gobo wheel rotation from fast to slow	proportional
					222 - 223	No rotation	step
21	**19**	**19**	**17**	**-**	224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
					244 - 249	Random gobo selection by audio control	step
						(Set microphone sensitivity in menu „Personality")	
					250 - 255	Auto random gobo selection from fast to slow	proportiona
						Rot. gobo indexing and rotation	
						Gobo indexing - set position on channel 21 (19)	
					0 - 255	Gobo indexing	proportional
						Gobo rotation - set position on channel 21 (19)	
22	**20**	**20**	**18**	**13**	0	No rotation	step
					1 - 127	Forwards gobo rotation from fast to slow	proportional
					128 - 129	No rotation	step
					130 - 255	Backwards gobo rotation from slow to fast	proportional
23	**-**	**21**	**-**	**14**	0-255	**Gobo fne indexing** Fine indexing	proportional
						Prism	
					0 - 19	Open position (hole)	step
					20 - 127	3-facet rotating prism	step
					128 - 255	**Prism/gobo macros**	
					128 - 135	Macro 1	step
					136 - 143	Macro 2	step
					144 - 151	Macro 3	step
					152 - 159	Macro 4	step
					160 - 167	Macro 5	step
					168 - 175	Macro 6	step
					176 - 183	Macro 7	step
					184 - 191	Macro 8	step
24	**21**	**22**	**19**	**19**	192 - 199	Macro 9	step
					200 - 207	Macro 10	step
					208 - 215	Macro 11	step
					216 - 223	Macro 12	step
					224 - 231	Macro 13	step
					232 - 239	Macro 14	step
					240 - 247	Macro 15	step
					248 - 255	Macro 16	step
						Prism rotation	
					0		step
					1 - 127	No rotation	proportional
					128 - 129		step
25	**22**	**23**	**20**	**-**	130 - 255	Forwards rotation from fast to slow proportional	proportional
						No rotation	
						Backwards rotation from slow to fast	
						Frost	
					0	Open	step
					1 - 179	Frost from 0% to 100%	proportional
26	**23**	**24**	**21**	**-**	180 - 189	100% frost	step
					190 - 211	Pulse closing from slow to fast	proportional
					212 - 233	Pulse opening from fast to slow	proportional
					234 - 255	Ramping from fast to slow	proportional
27	**-**	**25**	**-**	**-**	0-255	**Frost fne** Smooth frosting	proportional
						Iris	
					0	Open	step
28	**24**	**26**	**22**	**20**	1 - 179	From max.diameter to min.diameter	proportional
					180 - 191	Closed	step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
28	24	26	22	20		**Pulse effects with Iris blackout:**	
					192 -219	Pulse opening from slow to fast	proportional
					220 - 247	Pulse closing from fast to slow	proportional
					248 - 249	Random pulse opening (fast)	step
					250 - 251	Random pulse opening (slow)	step
					252 - 253	Random pulse closing (fast)	step
					254 - 255	Random pulse closing (slow)	step
29	-	27	-	21		**Iris fne**	
					0 - 255	Iris fne	proportional
30	25	28	23	24		**Zoom**	
					0 - 255	Zoom from max. to min.beam angle	proportional
31	-	29	-	25		**Zoom fne**	
					0-255	Zoom fne	proportional
32	26	30	24	22		**Focus**	
					0 - 255	Continuous adjustment from far to near	proportional
33	-	31	-	23		**Focus fne**	
					0- 255	Focus fne	proportional
34	27	32	25	1		**Shutter, strobe**	
					0 - 31	Shutter closed, Lamp power reduced to 350 W (after 10 s*)	step
					32 - 63	Shutter open, Full lamp power	step
					64 - 95	Strobe-effect from slow to fast (max.15 fashes/s)	proportional
					96 - 127	Shutter open, Lamp power reduced to 350 W	step
					128 - 143	Opening pulse in sequences from slow to fast	proportional
					144 - 159	Closing pulse in sequences from fast to slow	proportional
					160 - 191	Shutter open, Electronic strobing „ZAP” from slow to fast	proportional
					192 - 223	(from 7 to 33 fashes/s)	proportional
					224 - 255	Random strobe-effect from slow to fast Shutter open, Full lamp power	step
35	28	33	26	2		**Dimmer intensity**	
					0 - 255	Dimmer intensity from 0% to 100% (In range of 0-3 DMX,lamp power reduced to 350 W)	proportional
36	-	34	-	3		**Fine dimmer intensity**	
					0 - 255	Dimmer intensity fne	proportional
-	-	-	-	5		**No function**	
-	-	-	-	7		**No function**	
-	-	-	-	9		**No function**	

* 10s=default time delay,this value can be changed by "Lamp Low Power Delay" menu.

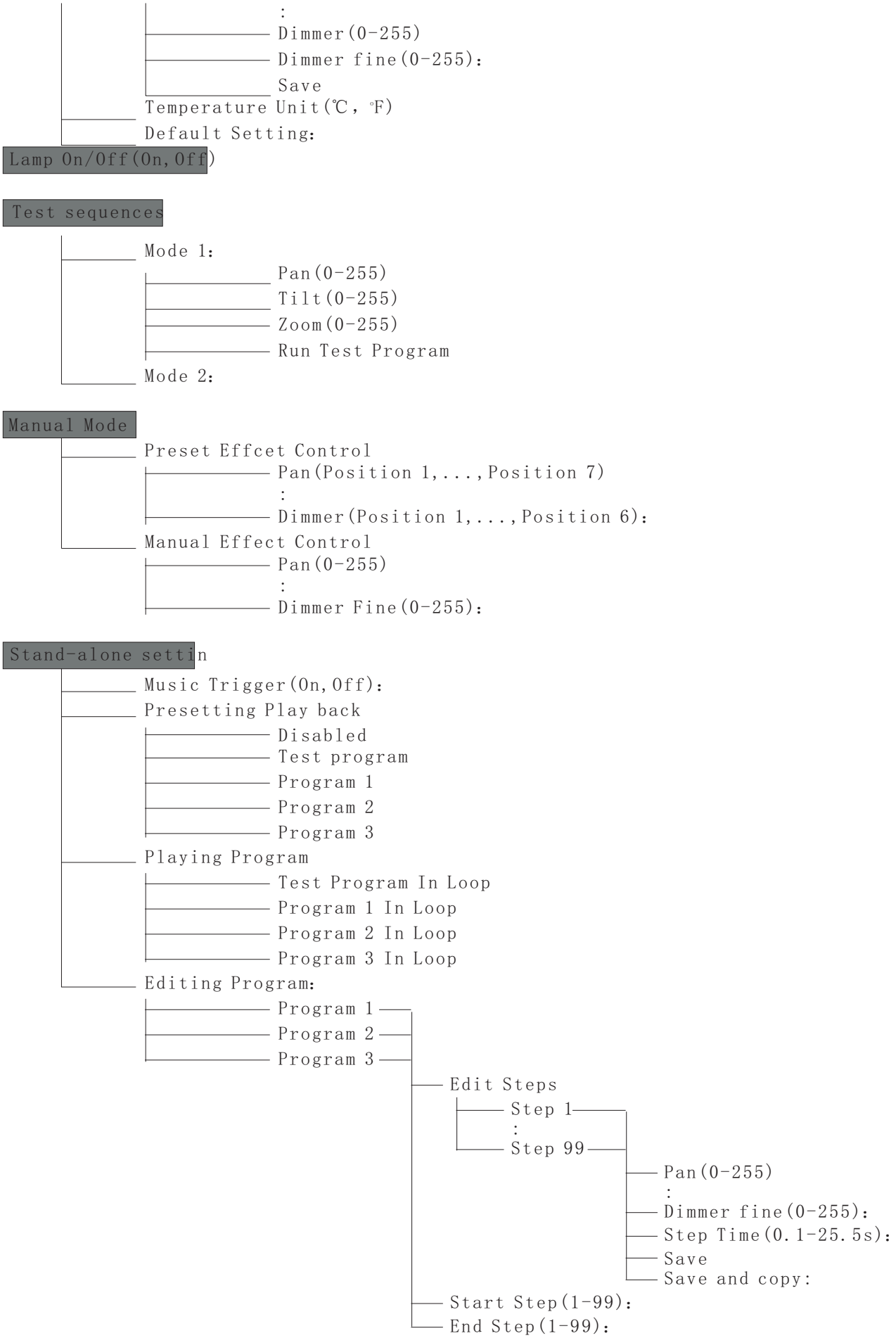
9.Control menu map

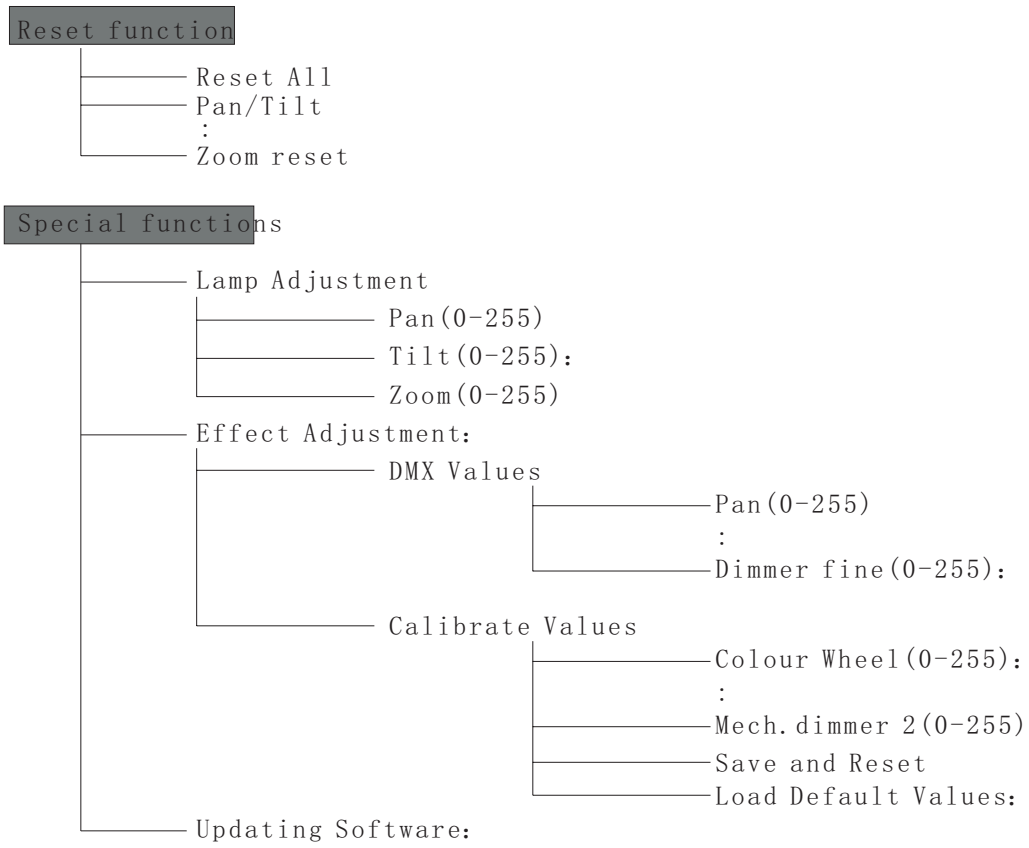
Default settings=Bold print
Default settings=Bold print

- **Fixture Address**
  - DMX Address
    - 001
    - :
    - 512
  - Ethernet settings
    - Set ethernet Mode
      - Disable Etherne
      - Ethernet
      - Ethernet/DMX
    - Set IP Address
      - Default IP Address
      - Custom IP Adress
    - Set Art Net Universe(0-255):

- **Fixurte information**
  - Power On Time
    - Total Hours
    - Resetable hours
  - Lamp On time
    - Total Hours:
    - Resetable Hours:
  - Lamp Strikes:
    - Total Strikes:
    - Resestable Strkes
  - Air filters
    - Set Alert period(10...50...300hours)
    - Elapsed time[hours]
  - Fixture Temperatures
    - Current:
      - Ambient Temp.[℃]
      - Board Temp.[℃]
      - Head Temp.[℃]
    - Maximum Nonresetable:
      - Ambient Temp.[℃]:
      - Board Temp.[℃]
      - Head Temp.[℃]
    - Maximum Resetable:
      - Ambient Temp.[℃]:
      - Board Temp.[℃]
      - Head Temp.[℃]
  - DMX Values
    - 001
    - 512
  - Software Version
    - IC1 MB
    - IC2 MB
    - IC1 DS
    - IC2 DS
  - Product Ids
    - Mac Adr
    - RDM UID

- Personality
  - User Mode
    - User A Settings
    - User B Settings
    - User C Settings
  - DMX Presetting:
    - Mode 1:
      - Ch.1 Pan
      - :
      - Ch.36 Dimmer Fine
      - Set Active:
    - Mode 2:
      - Ch.1 Pan
      - :
      - Ch.28 Dimmer
      - Set Active:
    - Mode 3:
      - Ch.1 Pan
      - :
      - Ch.34 Dimmer
      - Set Active:
    - Mode 4:
      - Ch.1 Pan
      - :
      - Ch.26 Dimmer
      - Set Active:
    - Mode 5:
      - Ch.1 Shutter/Strobe:
      - :
      - Ch.31 Special functions
      - Set Active:
  - Pan Reverse(On,Off)
  - Tilt Reverse(On,Off):
  - Lamp Presetting
    - Lamp On/Power On(On,Off)
    - Lamp Off via DMX(On,OFF)
    - Lamp On if DMX Present(On,Off
    - Lamp Off if not DMX(On,Off):
    - Lamp lenition delay(0..1..90)s
    - Lamp Low Power delay(10s-600s
    - Green Energy mode(On,Off):
  - Lamp Light Sensor(On,Off
  - Display Adjusting: LCD
    - Display Permanent On(On,Off):
    - Display Intensity(1..10):
    - Display Backlight(1..5..10):
    - Display Turned(On,Off):
  - Blackout d.M.C(On,Off
  - Pan/Tilt Feedback(On,Off):
  - Microphone Sensitivity(1..10..20):
  - Fan Modes:
    - Atuo cooling
    - High Cooling
  - Pan/Tilt mode(Time mode,Speed Mode)
  - Active Blackout While:
    - Pan/Tilt Moving(On,Off)
    - Color Wheels Moving(On,Off):
    - Gobo Wheels Moving(On,Off):
  - Dimmer Curve (Curve 1,Curve 2)
  - IR Sensor(On,Off):
  - Init Effect Positions
    - Pan(0-225)


:
Dimmer(0-255)
Dimmer fine(0-255):
Save
Temperature Unit(℃, ℉)
Default Setting:
Lamp On/Off(On,Off)
Test sequences
Mode 1:
Pan(0-255)
Tilt(0-255)
Zoom(0-255)
Run Test Program
Mode 2:
Manual Mode
Preset Effcet Control
Pan(Position 1,...,Position 7)
:
Dimmer(Position 1,...,Position 6):
Manual Effect Control
Pan(0-255)
:
Dimmer Fine(0-255):
Stand-alone settin
Music Trigger(On,Off):
Presetting Play back
Disabled
Test program
Program 1
Program 2
Program 3
Playing Program
Test Program In Loop
Program 1 In Loop
Program 2 In Loop
Program 3 In Loop
Editing Program:
Program 1
Program 2
Program 3
Edit Steps
Step 1
:
Step 99
Pan(0-255)
:
Dimmer fine(0-255):
Step Time(0.1-25.5s):
Save
Save and copy:
Start Step(1-99):
End Step(1-99):


Reset function
Reset All
Pan/Tilt
:
Zoom reset
Special functions
Lamp Adjustment
Pan(0-255)
Tilt(0-255):
Zoom(0-255)
Effect Adjustment:
DMX Values
Pan(0-255)
:
Dimmer fine(0-255):
Calibrate Values
Colour Wheel(0-255):
:
Mech.dimmer 2(0-255)
Save and Reset
Load Default Values:
Updating Software:

10 Error and information messages

Occured errors during fixture operation are signaled by warning icon on the display:

Press [ESC] to see the current error messages. Description of error messages:

Active Lamp Timer

This message appears if you try to switch on the lamp within 5 minutes after having switched it off (the lamp is too hot). The message will appear on the display if the lamp doesn't ignite within 28 seconds. The ColorSpot 700E AT will store this information and automatically ignite the lamp when the 5 minutes period has expired.

Caution: The message is disabled if the lamp light sensor (function "Lamp Sensor"in menu Personality) is switched Off.

Lamp Error

The ignition of the lamp is seven times unsuccessful (the "*Active Lamp Timer*" message appeared six times before), and the display shows **"***Lamp Error***"**, meaning that the lamp could be damaged or even missed or there could be a failure on the ignitor or ballast.

Please place or replace the lamp and contact your dealer if the situation was not caused by the lamp.

Caution: The message is disabled if the lamp light sensor (function "Lamp Sensor" in menu Personality) is switched off.

Lamp Sensor Error

This message informs the lamp light sensor is failed.

Caution: The message is disabled if the lamp sensor (function Lamp Sensor in menu Personality) is switched Off.

Overheated-Lamp Off

This message informs that the fixture head had been overheated and the lamp was switched off by head temperature sensor.

Overheated-Lamp Low

This message informs that the fixture head has been overheated and the lamp power is reduced.

Short Power Error

This message will appear if the fixture was shortly disconnect from the main.

Supply Frequency Error

This message will appear if the frequency of the main is not standard 50 or 60 Hz.This message can appear as a result of the interference during the lamp starting (if the lamp or igniter is old) or as a result of the interference by neighbouring devices. **In these cases the message does not affect the fixture operating!**

Temper.Sensor Error

The message informs you that the communication betwen the head and the main board in the fixture base was cut off (or the head temperature sensor is defective) and the lamp was automatically switched off.

Power down mode

This message will appear if the fixture is switched to the "Power down mode" (e.g. fixture head is overheated).

The following error messages are separated into 2 groups:

xxxx xxxx Error 1 (e.g.*Colour Wheel Error 1*)
xxxx xxxx Error 2 (e.g.Colour Wheel Error 2)
There are some possible reasons of faults:

Message	**Characteristic fault**
xxxx xxxx Error 1	Magnetic sensor is permanently On (e.g. leading wire is short-circulated,defective stepping motor, defective control circuit on the PCB)
xxxx xxxx Error 1/xxxx xxxx Error 2	Magnetic sensor is permanently Off(e.g.leading wire is disconnected, defective magnetic sensor,missing magnet),defective stepping motor

Colour Wheel Error 1 (Colour Error 2)

The messsages will appear after the reset of the colour wheel if this wheel is not located in the default position.

Cyan Lamella Error 1 (Cyan Error 2)

The messsages will appear after the reset of the cyan ag if the ag is not located in the default position.

Magenta Lamella Error 1 (Magenta Error 2)

The messsages will appear after the reset of the magenta ags if the ag is not located in the default position.

Yellow Lamella Error 1 (Yelow Error 2)

The messsages will appear after the reset of the yellow ags if the ag is not located in the default position.

CTO Lamella Error 1 (CTO Lamella Error 2)

The messsages will appear after the reset of the CTO ag if the ag is not located in the default position.

Strobe 1 Error 1 (Strobe 1 Error 2)

The messsages will appear after the reset of the dimmer/strobe module if the strobe lamella1 is not located in the default position.

Strobe 2 Error 1 (Strobe 2 Error 2)

The messsages will appear after the reset of the dimmer/strobe module if the strobe lamella 2 is not located in the default position.

Prism Error 1 (Prism Error 2)

The messages will appear after the reset of the prism wheel if this wheel is not located in the default position.

Prism Rot. Error 1 (Effect Rot. Error 2)

The messages will appear after the reset of the prism wheel if the prism is not located in the default position.

Zoom Error 1 (Zoom Error 2)

The messsages will appear after the reset of the zoom module if the zoom lens is not located in the default position.

Focus Error 1 (Focus Error 2)

The messsages will appear after the reset of the focus module if the focus lens is not located in the default position.

Gobo Wheel Error 1 (Rot.Gobo Wheel Error 2)

The messages will appear after the reset of the rotating gobo wheel if this wheel is not located in the default position.

Gobo Index. Error 1 (Rot. Gobo Index. Error 2)

The messages will appear after the reset of the rotating gobo wheel if the rotating gobos are not located in the default positions.

Static Gobo Error 1 (Static Gobo Wheel Error 2)

The messages will appear after the reset of the static gobo wheel if this wheel is not located in the default position.

Animate wheel Error 1 (Animate Error 2)

The messages will appear after the reset of the animation wheel if this wheel is not located in the default position

Iris Error 1 (Iris Error 2)

The messages will appear after the reset of the iris if the iris lamellas are not located in the default positions.

Pan Error 1 (Pan Error 2)

The messages will appear after the reset of the yoke if the yoke is not located in the default position.

Tilt Error 1 (Tilt Error 2)

The messages will appear after the reset of the head if the head is not located in the default position.

Gobo Wheel Error 1 (Rot.Gobo Wheel Error 2)

The messages will appear after the reset of the rotating gobo wheel if this wheel is not located in the default position.

Gobo Index. Error 1 (Rot. Gobo Index. Error 2)

The messages will appear after the reset of the rotating gobo wheel if the rotating gobos are not located in the default positions.

Static Gobo Error 1 (Static Gobo Wheel Error 2)

The messages will appear after the reset of the static gobo wheel if this wheel is not located in the default position.

Animate wheel Error 1 (Animate Error 2)

The messages will appear after the reset of the animation wheel if this wheel is not located in the default position

Iris Error 1 (Iris Error 2)

The messages will appear after the reset of the iris if the iris lamellas are not located in the default positions.

Pan Error 1 (Pan Error 2)

The messages will appear after the reset of the yoke if the yoke is not located in the default position.

Tilt Error 1 (Tilt Error 2)

The messages will appear after the reset of the head if the head is not located in the default position.

11、Technical specifications

Electrical:

Power supply:.....electronic auto-rangin

Input voltage range:.....100-240V AC,50/60Hz

Live Fuse:20A

Neutral Fuse:20A

Lamp:

SPOT 700 PF

Approved model:Philips MSR Gold 700 FastFit,750 hours

Philips MSR Gold 700 FastFIT,750 hours

SPOT 1200 EF

Approved model:Philips MSR Gold 1200 FastFit,750 hours

Philips MSR Gold 1200FastFIT,750 hours

Bas :PGJX50

Ballast: CCI Model:GDR1200M5ZC 250V 8A 50/60HZ OUTPUT 100V 1200W

Optical System:

High luminous-efficiency glass re ector.

Zoom range:15 - 51

Colour wheel:

7 replaceable ‘SLOT&LOCK’ dichroic filters(including UV filter)

CMY colour mixing module

Smooth CMY colour mixing system

Colour temperature correction filter lowers the colour temperature to 3200 K 30 colour macros

Static gobo wheel:

9 replaceable ‘SLOT&LOCK’ metal gobos plus an open position,outside diameter= 26.9mm,image diameter=22.5mm,aluminium,thickness=0.5mm

Rotating gobo wheel

7 glass gobos (4 black and white,2 multicolour,1 effect glass)can be indexed and rotated in both directions at different speeds Gobo wheel continuously rotation

Glass gobos:outside diameter=26.8mm,max.thickness=4mm,high temperature boro oat or better glass

“Slot&Lock” system for easy replacement of gobos

Animation wheel:

Variable rotation angle,continuous rotation,indexing,Easy replaceable

Prism:

Rotating 3-facet prism,idexable 360 w ith continuous rotation

Iris:Motorized(steplessly adjustable)iris for different beam diameters

Frost filter

Separate,variable frost filter

Zoom:

Linear motorized zoom

Strobe:

Strobe effect with variable speed(max.15 ashes per second)

Dimmer:

Smooth dimmer from 0-100%

Electronics:

Control via graphic LCD display and robe navigation system.

Readout fixture and lamp usage,receiving DMX values,temperature,etc

Built-in analyzer for aesy fault finding,error messages

Remotely switching on/off the lamp

Bilt-in demo sequences

Black-out while head moving or color changing

Slient fans cooling

Self-resetable thermo-fuse

Ethernet operation(Art-Net communication protocol)

Stand-alone operation

Ready for RDM(Remote Device Management)protocol

Protocol USITT DMX 512

5 DMX modes(26,28,31,34 or 36 control channels)

Pan/Tilt

Pan movement range 530

Tilt movement range 280

16 bit movement resolution

Automatic Pan/Tilt position correction

Remotely controllable speed of pan/tilt movement for easy programming

Movement control:tracking and vector

Pan/tilt-lock mechanism

Rigging

Mounting points:4 pairs of 1/4-turn locks

Mounting horizontally or vertically via 2 Omega brackets

Satety chain/cord attachment point

Temperatures

Maximum ambient temperature:40℃

Maximum housing temperature:120℃

Minimum distances

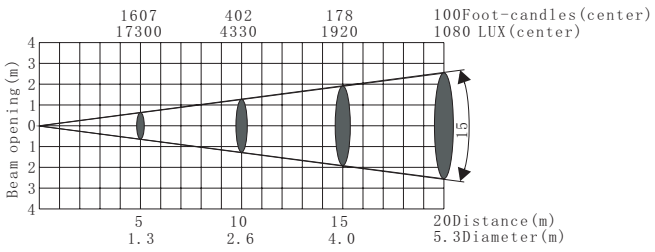
Min.distance from ammable surfaces:1m

Min.distance to lighted object:1.5m

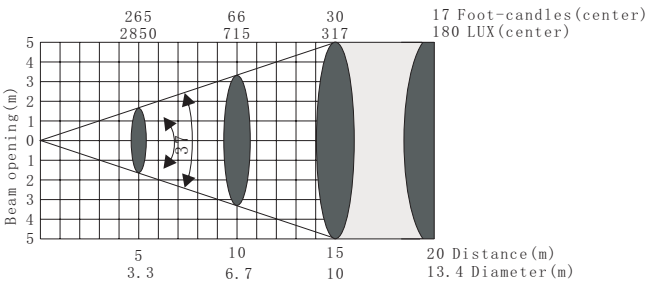
Weight(net):32Kg

Beam Path

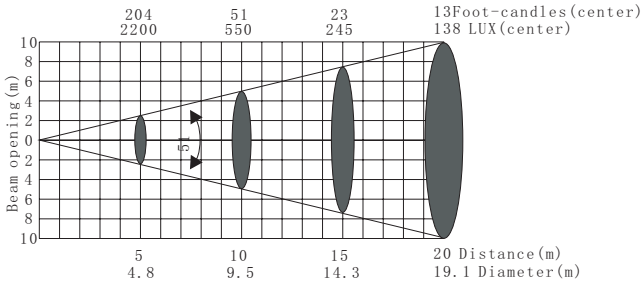
Beam agle 15 -Min.zoom



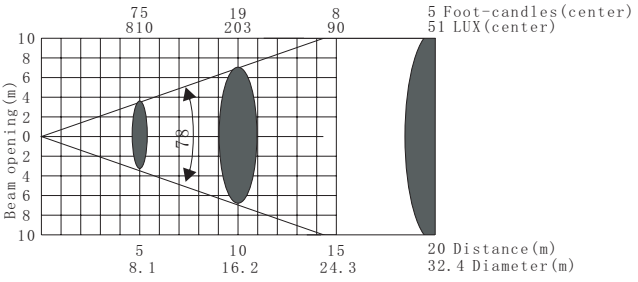
Beam angle 15 sith frost



Beam angle 51 -Max.zoom



Beam angle 51 with frost



12.Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not buildup on or within the fixture. Otherwise, the fixtures light-output will be significantly reduced. Regular cleaning will not only ensure the maxim um light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circum stances should alcohol or solvents be used!

DANG ER : Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The gobos m ay be cleaned with a soft brush. The interior of the fixture should be cleaned at least annually usinga vacuum -cleaner or an air-jet.

The dichroic colour-filters, the gobo-w heel and the internal lenses should be cleaned monthly.

To ensure a proper function of the gobo-w heel , we recom m end lubrication in six month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-w heel rotates.

There are no serviceable parts inside the device except for the lam p and the fuse. Please refer to the instructions under "Fitting/Exchanging the lamp ".Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the lam p burns out, the fine-w ire fuse of the device might fuse, too. Only replace the fuse by a fuse of same type and rating. Before replacing the fuse, unplug mains lead.